ABSTRACT OF THE DISCLOSURE

The invention relates to a method of dissociating the annelids, extracellular haemoglobin molecule of e.g. Arenicola marina, which can be used to obtain the protein chains forming said molecule. The inventive method characterised in that it comprises a step consisting in bringing an extracellular haemoglobin sample from annelids, e.g. Arenicola marina, into contact with at least one containing dissociating agent, e.g. mixture a dithiothreitol (DTT) or tris(2-carboxyethyl)phosphine hydrochloride or beta-mercaptoethanol dissociation buffer for a sufficient length of time in order to separate the protein chains from one another.